#### District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

# State of New Mexico Energy Minerals and Natural Resources

Form C-101 May 27, 2004

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

RECEIVED o appropriate District Office

1220 S. St. Fr	ancis Dr., S	Santa F	e, NM	87505		Sant	ta Fe, N	M 875	505	Obb:M	175Q)	<b>%</b> \•		
APPL	ICATI	ON	FOF	R PERMIT	r to Di	RILL, RE	-ENTE	R, DI	EEPE	N, PLUGBA			D A ZONE	
				Operator Nam					,	14744	<sup>2</sup> OGRID	) Number		
Mewbourne Oil Company Po Box 5270								3 API Number						
<sup>3</sup> Prone	rty Code			Hobbs, NN	A 88240	<sup>5</sup> Propert	v Name			_   50 01	ς · <u>5</u>	401 Wel	3 l No.	
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						<sup>7</sup> Surfac	e Locat	ion						
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					Ad	lditional W		rmati	on					
11 Work Type Code 12 Well Type Cod					ode	de 13 Cable/R R			1	<sup>4</sup> Lease Type Code		15 Ground Level Elevation 3161'		
	N G  16 Multiple 17 Proposed D		17 Proposed De	enth	18 F	ormation			19 Contractor		<sup>20</sup> Spud Date			
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<sup>22</sup> Describe t	he proposed	d progr	ram. If	f this application	n is to DEEI	PEN or PLUG I	BACK, giv	the dat	a on the p		one and pr	roposed r	new productive zone.	
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Series (See E	xhibit #2A)	from	interme	ediate casing to	total depth.	Rotating head	l, PVT, flov	w monito	ors and m	ud gas Separator fro	m the Wo	lfcamp to	o TD.	
Mud Program														
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				ne. 9.3 #/g, Cau				d LCM a	as needed	for seepage				
							- 1							
<sup>23</sup> I hereby cer	tify that th	e infor	mation	given above is	true and con	mplete to the	OH		OIL C	CONSERVAT	ION D	IVISI	ON	
				rther certify th guidelines X, a				ed by:						
(attached) al					g p						IM W.	i IPF	RVISOR	
Printed name:	Kristi Gre	en	,	Fors	ti C	Men	Title:		2425		<del>/                                      </del>	JUI	114100	
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Date: 02/08/0	ate: 02/08/05 Phone: 505-393-5905						Conditions of Approval Attached							

DISTRICT I 1626 M. Prench Dr., Hobbs, NM 88240 DISTRICT II 811 South First, Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 67505

DISTRICT III

# State of New Mexico

ergy, Minerals and Natural Resources Department

FORM U-102 Revised March 17, 1999 instruction on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

#### OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name					
		South Carlsbad MOrrow					
Property Code	Pro	perty Name	Well Number				
	RANCH HAND "5	" FEE COM.	2				
OGRID No.	Оре	rator Name	Elevation				
14744	MEWBOURNE	OIL COMPANY	3161				

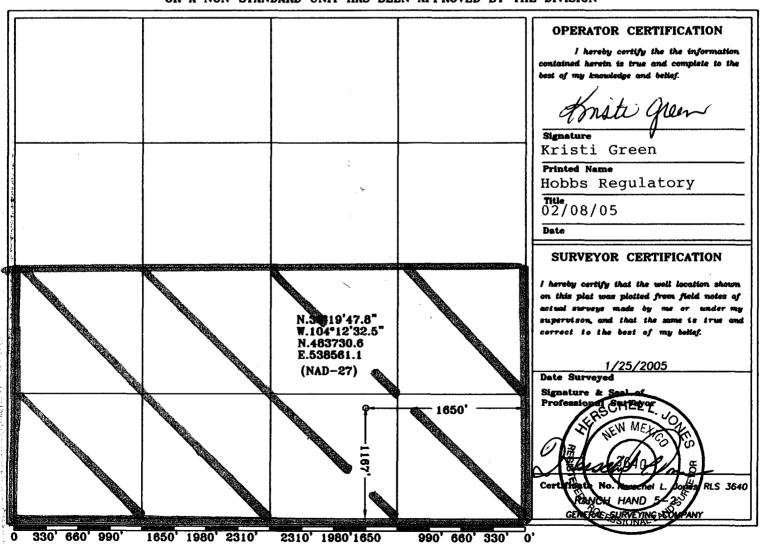
#### Surface Location

UL or lot No.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
0	5	<i>2</i> 3S	27E		1167	SOUTH	1650	EAST	EDDY

#### Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Peet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation (	Code On	der No.	<b>I</b>		<u></u>	L
320							45-11-11-11-11-11-11-11-11-11-11-11-11-11		

#### NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



# MEWBOURNE OIL COMPANY Ranch Hand 5 Fee Com #2

1167' FSL & 1650' FEL Section 5-T23S-R27E Eddy County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, Covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved, and the procedures to be followed in restoring the surface so that a complete appraisal can be made of the environmental impact associated with the proposed operations.

#### 1. Existing Roads:

- A. Exhibit #3 is a topographic map showing the location of the proposed well and access road.
- B. From Carlsbad: South on Old Cavern Hwy (CR748) 4.2 miles. Turn left (east) on Harkness Road (CR757). Continue east 0.7 miles. Turn left (north) on lease road and continue north 0.2 miles to location.

#### 2. Proposed Access Road:

- A 1100' of new road will be needed. The road will enter location on the SW corner.
- B. The access to the location will be limited to 16' in width and will adequately drain runoff and control erosion as presently constructed.

# 3. Location of Existing and/or Proposed Facilities:

- A. There are no production facilities on this lease at the present time.
- B. In the event that the well is productive, production facilities will be located on the well pad.

# 4. Location and Type of Water Supply

The well will be drilled with a combination of fresh water and brine water based mud systems. The water will be obtained from commercial suppliers in the area and/or hauled to the location by transport trucks over existing and proposed roads as indicated in Exhibit #3.

MEWBOURNE OIL COMPANY

Ranch Hand 5 Fee Com #2

Page 2

#### 5. Source of Construction Materials

All material required for construction of the drill pad and access roads will be obtained from private, state, or federal pits. The construction contractor will be solely responsible for securing construction materials required for this operation and paying any royalties that may be required on those materials.

# 6. Methods of Handling Waste Disposal:

- A. Drill cuttings not retained for evaluation purposed will be disposed of in the reserve pit.
- B. Drilling fluids will be allowed to evaporate in the reserve pit prior to closure.
- C. Water produced during operations will be disposed of in the reserve pit.
- D. If any liquid hydrocarbons are produced during operations, those liquids will be stored in suitable tanks until sold.
- E. Current regulations regarding the proper disposal of human waste will be followed.
- F. All trash, junk, and other waste materials will be stored in proper containers to prevent dispersal and will be removed to an appropriate facility within one week of cessation of drilling and completion activities.

#### 7. Ancillary Facilities

There are no ancillary facilities within the immediate vicinity of the proposed well site.

#### 8. Well Site Layout

- A diagram of the drill pad is shown in Exhibit #5. Dimensions of the pad, pits, and location of major rig components are shown.
- B. The reserve pit will be lined with a high quality plastic sheeting to prevent migration of fluids as per OCD regulations.
- C. The pad dimension of 350' X 300' has been staked and flagged.
- D. An archaeological survey has been conducted on the proposed access road and location pad.

#### 9. Plans for Restoration of Surface

A. Upon cessation of the proposed operations, if the well is abandoned, the location and road will be ripped and re-seeded per guidelines. The reserve pit area, after allowing to dry will be leveled. The entire location will be restored to the original contour as much as reasonable possible. All trash, garbage, and pit lining will be hauled to appropriate disposal to assure the location is aesthetically pleasing as reasonably possible. All restoration work will be completed within 180 days of cessation of activities.

MEWBOURNE OIL COMPANY

Ranch Hand 5 Fee Com #2 Page 3

- B. The disturbed area will be restored by re-seeding during the proper growing season.
- C. Three sides of the reserve pit will be fenced prior to and during drilling operations. The reserve pit will be fenced on the fourth side after the drilling rig is removed to prevent the endangerment of livestock. The fence will remain in place until the pit area has been leveled and restored.
- D. Upon cessation of the proposed operations, if the well is not abandoned, the reserve pit area will be restored as per OCD guidelines. Any additional caliche required for production facilities will be obtained from a source as described in Section 6.

# 10. Surface Ownership:

The surface is owned by: Sheryl Marie Warren, Successor Co-Trustee

And Helen Marie Pickens, Co-Trustee under

Trust B of the William Earle Pickens and Marie Pickens

Revocable Trust 1526 Tokay

Carlsbad, NM 88210 (505) 885-4671

#### 11. Other Information

A. The primary use of the surface at the location is for grazing of livestock.

#### 12. Operator's Representative:

A. Through APD approval and drilling operations:

N.M. Young, District Manager Mewbourne Oil Company PO Box 5270 Hobbs, NM 88241 505-393-5905

B. Through completion and production operations:

N.M. Young, District Manager Mewbourne Oil Company PO Box 5270 Hobbs, NM 88241 505-393-5905

MEWBOURNE OIL COMPANY

Ranch Hand 5 Fee Com #2 Page 4

#### 13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by Mewbourne Oil Company, its contractors and subcontractors, in accordance with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Date: 02/08/05\_\_\_\_\_

Signature:

NM Young Mewbourne Oil Company PO Box 5270 Hobbs, NM 88241 (505) 393-5905

# Hydrogen Sulfide Drilling Operations Plan

**Mewbourne Oil Company** 

Ranch Hand 5 Fee Com #2 1167' FSL & 1650' FEL Section 5-T23S-R27E Eddy County, New Mexico

#### 1. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will have received training from a qualified instructor in the following areas prior to entering the drilling pad area of the well:

- 1 The hazards and characteristics of hydrogen sulfide gas.
- 2 The proper use of personal protective equipment and life support systems.
- The proper use of hydrogen sulfide detectors, alarms, warning systems, briefing areas, evacuation procedures.
- 4 The proper techniques for first aid and rescue operations.

Additionally, supervisory personnel will be trained in the following areas:

- The effects of hydrogen sulfide on metal components. If high tensile tubular systems are utilized, supervisory personnel will be trained in their special maintenance requirements.
- 2 Corrective action and shut in procedures, blowout prevention, and well control procedures while drilling a well.
- The contents of the Hydrogen Sulfide Drilling Operations Plan.

There will be an initial training session prior to encountering a know hydrogen sulfide source. The initial training session shall include a review of the site specific Hydrogen Sulfide Drilling Operations Plan.

#### 2. Hydrogen Sulfide Safety Equipment and Systems

All hydrogen sulfide safety equipment and systems will be installed, tested, and operational prior to drilling below the intermediate casing.

# 1. <u>Well Control Equipment</u>

- A. Flare line with automatic igniter or continuous ignition source.
- B. Choke manifold with minimum of one adjustable choke.
- C. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment including rotating head and annular type blowout preventer.

# 2. <u>Protective Equipment for Essential Personnel</u>

Thirty minute self contained work unit located at briefing area as indicated on wellsite diagram.

# 3. Hydrogen Sulfide Protection and Monitoring Equipment

Two portable hydrogen sulfide monitors positioned on location for optimum coverage and detection. The units shall have audible sirens to notify personnel when hydrogen sulfide levels exceed 20 ppm.

#### 4. <u>Visual Warning Systems</u>

- A. Wind direction indicators as indicated on the wellsite diagram.
- B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

#### 3. Mud Program

The mud program has been designed to minimize the amount of hydrogen sulfide entrained in the mud system. Proper mud weight, safe drilling practices, and the use of hydrogen sulfide scavengers will minimize hazards while drilling the well.

# 4. Metallurgy

All tubular systems, wellheads, blowout preventers, drilling spools, kill lines, choke manifolds, and valves shall be suitable for service in a hydrogen sulfide environment when chemically treated.

#### 5. Communications

State & County Officials phone numbers are posted on rig floor and supervisors trailer. Communications in company vehicles and toolpushers are either two way radios or cellular phones.

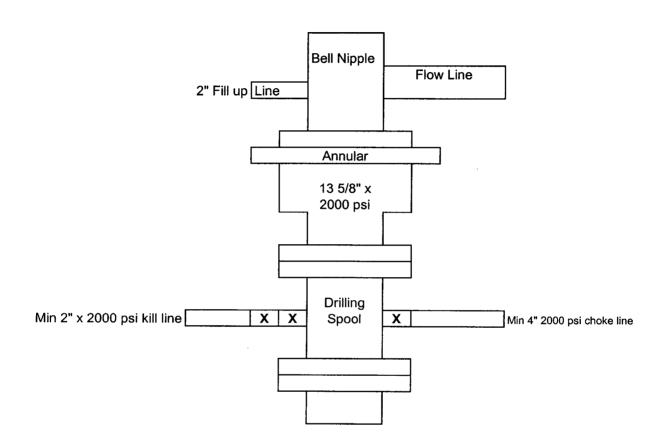
#### 6. Well Testing

Drill stem testing is not an anticipated requirement for evaluation of this well. A drill stem test is required, it will be conducted with a minimum number of personnel in the immediate vicinity. The test will be conducted during daylight hours only.

#### 7. General Requirements

MOC has researched this area and no high concentrations of H2S was found. MOC will have on location and working all H2S safety equipment before Delaware formation at 2000'.

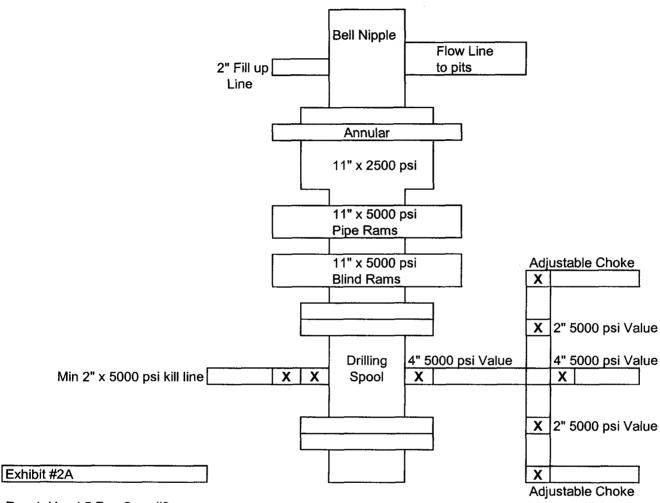
# Mewbourne Oil Company BOP Scematic for 12 1/4" Hole



# Exhibit #2

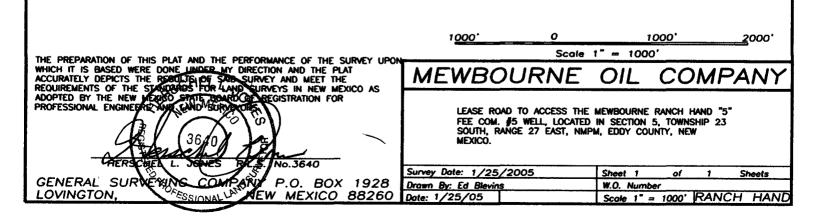
Ranch Hand 5 Fee Com #2 Sec 5-T23S-R27E 1167' FSL & 1650' FEL Eddy County, NM

# Mewbourne Oil Company BOP Scematic for 8 3/4" or 7 7/8" Hole



Ranch Hand 5 Fee Com #2 Sec 5-T23S-R27E 1167' FSL & 1650' FEL Eddy County, NM SECTION 5, TOWNSHIP 23 SOUTH, RANGE 27 EAST, NMPM, EDDY COUNTY, NEW MEXICO. 3167 T n 318B 3152 3168T RANCH HAND 150' FROM FENCE FEE COM,#2 1167/S 1650/E 124' FROM PIPELINE o IGM PRIVATE 3152T 318

# Exhibit 3



Page 1

Exhibit 3

Mewbourne Oil Company

Rig Location Schematic

# Proposed Production Facilities Schematic

